

**Listing of Claims:**

Claims 1-46 (Canceled).

47. (Currently Amended) An imaging apparatus for a microscope, comprising:

an imaging element which picks up an image observed through the microscope; and

an operation display section;

wherein the operation display section comprises:

an operation section comprising an imaging start instructing member, a recording range enlargement instructing member, a recording range reduction instructing member, a display enlargement instructing member, and a display reduction instructing member;

a recording section which includes a removable recording medium, and which is configured to temporarily record the image picked up by the imaging element;

a display section configured to display the image temporarily recorded by the recording section at a display magnification, which is variable; and

a control section which controls recording and reproducing operations of the recording section and the display magnification of the display section, and which selectively

controls a recording range of the image instructed by the recording range enlargement instructing member and the recording range reduction instructing member, and the display magnification of the image instructed by the display enlargement instructing member and the display reduction instructing member, wherein the control section has a moving image imaging mode which continuously repeats temporary recording by the recording section and display by the display section, and a still image imaging mode which records an image within the recording range among images temporarily recorded by the recording section, and wherein the control section controls the recording and reproducing operations in an operation mode selected from:

a first operation mode in which the recording range of the image in the still image imaging mode is fixed, and a display range and the display magnification of the image in the moving image mode are variable as an angle of view of the image displayed on the display section is changed;

a second operation mode in which the recording range of the image in the still image imaging mode is variable, and the display range and the display magnification of the image in the moving image mode are fixed; and

a third operation mode in which the recording range of the image in the still image imaging mode is variable and the display range and the display magnification of the image in the

45 moving image mode are variable as an angle of view of the image  
displayed on the display section is changed based on the  
recording range of the image in the still image imaging mode.

48. (Previously Presented) The imaging apparatus for a microscope according to claim 47, wherein the operation section further comprises:

5 a recording range display instructing member which causes the display section to display the recording range of the image;  
a recording range instructing member which varies the recording range of the image; and

an image list display instructing member which causes the display section to display a list of images of predetermined areas of the image recorded in the record section.